

LINDSKOG et al.
Serial No. 09/757,084

Atty Dkt: 4015-2
Art Unit: 2682

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)

2. (Currently Amended) ~~The mobile terminal of claim 1,~~ A mobile terminal which transmits, over an air interface to a power status repository of a wireless local area network (LAN), power status information, the power status information having an indication of whether the mobile terminal is currently operating using battery power or line power, wherein the power status information is being transmitted at one of the following times: (1) upon power up of the mobile terminal; (2) upon command issued from the power status repository; (3) upon establishment of a connection between the mobile terminal and the LAN; and (4) upon a change in power status for the mobile terminal.

3. (Currently Amended) The mobile terminal of claim ~~1~~2, wherein the power status information is transmitted as a dedicated message.

4. (Currently Amended) The mobile terminal of claim ~~1~~2, wherein the power status information is included in a message with other status information.

5. (Currently Amended) The mobile terminal of claim ~~1~~2, wherein the power status repository is an access point of the wireless local area network.

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6. (Currently Amended) The mobile terminal of claim 42, wherein the wireless local area network is an ad hoc network and wherein the power status repository is another mobile terminal participating in the network.

- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled) f
- 14. (Cancelled)
- 15. (Cancelled)
- 16. (Cancelled)
- 17. (Cancelled)
- 18. (Cancelled)
- 19. (Cancelled)
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- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Cancelled)
- 26. (Cancelled)
- 27. (Cancelled)
- 28. (Cancelled)

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29. (Currently Amended) ~~The network of claim 28,~~ A wireless local area network (LAN) comprising a mobile terminal which communicates over an air interface with a power status repository, wherein the mobile terminal transmits measurement capability information over the air interface to the power status repository, the measurement capability information having an indication of whether the mobile terminal has a power capacity to perform radio frequency measurements, wherein if the power status repository does not have sufficient measurements regarding radio frequency, the power status repository modifies a rate at which a frequency measurement command is transmitted to another mobile terminal.

30. (Currently Amended) The network of claim ~~28~~29, wherein the power status repository increases a rate at which a frequency measurement command is transmitted to another mobile terminal.

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Currently Amended) ~~The method of claim 37,~~ A method of operating a wireless local area network (LAN) comprising a mobile terminal which communicates over an air interface with a power status repository; the method comprising:
the mobile terminal transmitting measurement capability information over the air interface to the power status repository, the measurement capability information having

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an indication of whether the mobile terminal has a power capacity to perform radio frequency measurements;

the power status repository using the measurement capability information to determine whether to transmit a frequency measurement command to the mobile terminal to request the mobile terminal to make measurements regarding a radio frequency; and

wherein if the power status repository does not have sufficient measurements regarding radio frequency, the power status repository ~~modifies~~ modifying a rate at which a frequency measurement command is transmitted to another mobile terminal.

39. (Original) The method of claim 38, wherein the power status repository increases a rate at which a frequency measurement command is transmitted to another mobile terminal.

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)

47. (Cancelled)

48. (Cancelled)

49. (Original) A wireless local area network (LAN) comprising:
a power status repository;
plural mobile terminals which communicate over an air interface with the power status repository;

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wherein if the power status repository does not have sufficient measurements from the plural mobile terminals in view of incapacity of one or more of the plural mobile terminals to perform a frequency measurement regarding radio frequency, the power status repository modifies a rate at which a frequency measurement command is transmitted to any of the mobile terminals which have sufficient capacity to perform the frequency measurement.

50. (Original) The network of claim 49, wherein the power status repository increases a rate at which a frequency measurement command is transmitted to the mobile terminals which have sufficient capacity to perform the frequency measurement.

51. (Original) The network of claim 49, wherein the power status repository is an access point of the wireless local area network.

52. (Original) The network of claim 49, wherein the wireless local area network is an ad hoc network and wherein the power status repository is another mobile terminal participating in the network.

53. (Original) A method of operating a wireless local area network (LAN) having plural mobile terminals which communicate over an air interface with a power status repository, the method comprising:

making a determination whether the power status repository has sufficient measurements from the plural mobile terminals in view of incapacity of one or more of the plural mobile terminals to perform a frequency measurement regarding radio frequency; and if the determination is negative;

modifying a rate at which a frequency measurement command is transmitted from the power status repository to any of the mobile terminals which have sufficient capacity to perform the frequency measurement.

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54. (Original) The method of claim 53, further comprising the power status repository increasing a rate at which a frequency measurement command is transmitted to the mobile terminals which have sufficient capacity to perform the frequency measurement if the determination is negative.

55. (Original) The method of claim 53, further comprising using an access point of the wireless local area network as the power status repository.

56. (Original) The method of claim 53, wherein the wireless local area network is an ad hoc network, and wherein the method further comprises using another mobile terminal participating in the network as the power status repository.